

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 02/16530

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04M1/73 H04M1/725

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 04, 30 April 1999 (1999-04-30) & JP 11 017572 A (NEC CORP), 22 January 1999 (1999-01-22)	12
A	abstract	1-11, 13-21
A	& US 6 272 116 A 7 August 2001 (2001-08-07)	1-11, 13-21
X	abstract column 1, line 66 -column 5, line 53 figures 2-4	12
A	GB 1 358 029 A (STANDARD TELEPHONES CABLES LTD) 26 June 1974 (1974-06-26) the whole document	1-21
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

19 September 2002

Date of mailing of the international search report

26/09/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Tzimeas, K

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 33469 A (CONEXANT SYSTEMS INC) 8 June 2000 (2000-06-08) abstract page 2, line 22 -page 5, line 33 -----	1-21
A	WO 00 70781 A (MTEK SEMICON CO LTD ;JEON KI (KR); CHOI SUNG HYUN (KR)) 23 November 2000 (2000-11-23) abstract page 3, line 26 -page 5, line 9 figures 1,2 -----	1-21

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 11017572	A	22-01-1999	JP	3055497 B2	26-06-2000
			US	6272116 B1	07-08-2001
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GB 1358029	A	26-06-1974	NONE		
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WO 0033469	A	08-06-2000	WO	0033469 A1	08-06-2000
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WO 0070781	A	23-11-2000	WO	0070781 A1	23-11-2000
			KR	196569 Y1	15-09-2000
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